

Technical Specifications and Standards Appendix B- Approved Products List

Water Distribution Systems, Reclaimed Water
Distribution Systems, Wastewater Collection Systems,
and Lift Stations



| May 2023 Revisions: | | |
|-------------------------------------|---------------|--------------------------|
| Added | | |
| ARV Enclosures | ARI | H30 |
| Backflow Preventer-Dual Check Valve | A.Y. McDonald | 7411-3JP43 |
| Brass Fittings | A.Y. McDonald | |
| Corp Stops | A.Y. McDonald | Multiple models |
| Curb Stops | A.Y. McDonald | Multiple models |
| Line Stop Saddle | TPS | Triple Tap |
| Manhole Access Castings | CAP | Composite Ring/Cover |
| Service Saddles | A.Y. McDonald | Multiple models |
| | TPS | Triple Tap T3 Wide Range |
| Meter | Master Meter | Octave |
| Tapping Saddles | TPS | Triple Tap MJ Sleeve |
| ARV's | ARI | D-025, D-026 |
| | H-Tec | 988-00, 989-00 |
| Removed | | |
| ARV | ARI | S-020 |
| ARV | H-TEC | 986 |

| Water, Reclaimed Water, and Wastewater Collection | | | |
|--|---------------------|----------------------------------|--|
| Item | Manufacturer | Model No. | Comments |
| ARV Enclosures, Vaults, Frames and Covers | | | |
| 1. | Dura-Stress | | |
| 2. | CDR | | |
| 3. | Oldcastle | | |
| 4. | US Foundry | USF 7665 Frame-HH/HJ covers | Lid stamped for appropriate utility |
| 5. | Water Plus | 131632- with pin allen bolt lock | Above ground installations - blue for potable, green for reclaimed water |
| 6. | ARI | H30 | Aboveground installation (wastewater only) |
| Automatic Flushing Devices (potable water only) | | | |
| 1. | Hydroguard | HG-1 and HG-1 Basic Series | |
| 2. | Hydroguard | HG-2 Signature Series | Direct discharge |
| 3. | Kupferle | Eclipse 9400WC | |
| 4. | Kupferle | Eclipse 9800WC | Direct discharge |
| Backflow Preventer- Double Check Detector Assembly- lead free | | | |
| 1 | Ames | | |
| 2. | Febco | | |
| 3. | Watts | | |



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| 4. | Wilkins | | |
| Backflow Preventer- Double Check Valve/Reduced Pressure Zone Valve- lead free | | | |
| 1. | Ames | | |
| 2. | Febco | | |
| 3. | Watts | | |
| 4. | Wilkins | | |
| Backflow Preventer- Dual Check Valves (residential 3/4" potable water meter sets only) | | | |
| 1. | Ford | Model HHS38-323 | |
| 2. | A.Y. McDonald | Model 7411-3JP43 | |
| Backflow Preventer- Swing Check Valve (for commercial reclaimed water only) | | | |
| 1. | Nibco | 918-B | 3" and 4" meter assemblies |
| 2. | AFC | 52-SC | ≥ 6" and/or mag meter assemblies |
| 3. | Kennedy Clow | 1106 | ≥ 6" and/or mag meter assemblies |
| Brass Fittings (domestic-based manufacturers only)-lead free | | | |
| 1. | Ford | | |
| 2. | A.Y. McDonald | | |
| 3. | Lee | | |
| 4. | Merit | | |
| Casing End Seal (shall be from same manufacturer as casing spacers) | | | |
| 1. | Advanced Products | Model AC | |
| 2. | BWM | BWM-PO | |
| 3. | CCI Pipeline Systems Inc. | Model ESC | |
| 4. | Cascade Water Works | Model CCES | |
| 5. | Pipeline Seal and Insulator | Model C and S | |
| Casing Spacers | | | |
| 1. | Advanced Products and Systems Inc. | Series SS | |
| 2. | BWM | BWM-SS | |
| 3. | CCI Pipeline Systems Inc. | | |
| 4. | Cascade Water Works | Series CCS | |
| 5. | Pipeline Seal and Insulator | Series S-G-2 | |
| Clean Out Box Lid (Traffic Area) "S" stamped on cover | | | |
| 1. | US Foundry | 7610 | |
| 2. | East Jordan Iron Works | HD Monument Box # 1574 | |
| Corp Stops (ball corp stop) | | | |
| 1. | Ford | FB1000 Series | CC x Compression for CTS poly tubing or copper (3/4" up to 2") |
| 2. | A.Y. McDonald | 74701B-22 | CC x Compression for CTS poly tubing or copper (3/4" to 2") |
| 3. | Ford | FB600 | CC x Flare for copper |
| 4. | A.Y. McDonald | 74701B-22 | CC x Flare for copper |
| 5. | Mueller | B-25008, P-25008 | CC x Compression for CTS poly tubing or copper |
| 6. | A.Y. McDonald | 74701BQ | CC x Compression for CTS poly tubing or copper |



| | | | |
|---|--------------------------------------|---|--|
| 7. | Mueller | B-25000 | CC x Flare for copper |
| 8. | Ford | FB1700-7 | MIP x FIPT, 2 inch for ARV saddle connections |
| 9. | A.Y. McDonald | 73149B2 | MIP x FIPT, 2 inch for ARV saddle connections |
| Curb Markers- Manholes outside of pavement for hydrants and manholes | | | |
| 1. | Apex Universal, Inc. | Model 921- Two Way | BB (Blue for hydrants) GG (Green for manholes) Installed with Bituminous Pavement Marker Adhesive |
| Curb Stops (ball valve curb stop with lock wing) 1" curb stops for RW must have handle | | | |
| 1. | Ford | B11-xxxW-NL | FPT x FPT for brass service line |
| 2. | A.Y. McDonald | 76101W1 | FPT x FPT for brass service line |
| 3. | Ford | B41-xxxW-NL | Compression x FPT for CTS poly tubing or copper |
| 4. | A.Y. McDonald | 76102W-221 | Compression x FPT for CTS poly tubing or copper |
| 5. | Ford | BA11-444W-NL | 1" angle ball meter valve for commercial meter assemblies |
| 6. | A.Y. McDonald | 74604BF1 | 1" angle ball meter valve for commercial meter assemblies |
| 7. | Ford | BFA13-777W-NL | 2" angle ball meter valve for commercial meter assemblies |
| 8. | A.Y. McDonald | 74604B2 | 2" angle ball meter valve for commercial meter assemblies |
| Curb Stop Handle (1" reclaimed water curb stops only) | | | |
| 1. | Ford | HB-34-RW | |
| 2. | A.Y. McDonald | 6120BRW1 | |
| 2. | Mueller | B-20298-99001 | |
| Ductile Iron Fittings (AWWA C-110/C-153 cement or epoxy lined) | | | |
| 1. | Sigma | | |
| 2. | Star | | |
| 3. | Tyler/Union | | |
| 4. | US Pipe | | |
| 5. | Custom Fab | | |
| Electronic Marking Balls | | | |
| 1. | 3-M Electronic Marking Systems (EMS) | 1400-XR Series | Blue for Potable Water; Purple for Reclaimed; Green for Wastewater |
| Expansion Joints | | | |
| 1. | EBA Iron | | |
| 2. | Proco | | |
| Field Coatings- Interior for Existing Manholes with Complete Rehabilitation | | | |
| 1. | SuperCoat, | | Cementitious |
| 2. | Quadex | | Cementitious |
| 3. | Raven | 405 | Epoxy Spray-on coating |
| 4. | Quadex | Structure Guard | Epoxy Spray-on coating |
| 5. | SprayRoq | | Polyurethane coating |
| 6.. | Monster | MB | Epoxy Spray-on coating |
| Field Coatings- Interior for New Manholes; joints, chimneys, channels, shelves and touch ups | | | |
| 1. | Pro-Tech Coatings | EW-1 Aquapoxy | Gray color |
| 2. | Richards Paint | 2100 Series Garage Shield Part A & B | Gray color |
| 3. | Sherwin Williams | B70 Part A; B60V25 Part B Semi-gloss | Gray color |



| Fire Hydrants | | | |
|--|----------------------------------|----------------------------------|--|
| 1. | American Darling | B-84-B | No lead, with epoxy coated break away coupling |
| 2. | Clow | Medallion 2545 | No lead, with SS break away coupling |
| 3. | Mueller | Super Centurion 250 A-423 | No lead, with SS break away coupling |
| Line Stop Saddle | | | |
| 1. | JCM | 440- Type 1 & 3 | |
| 2. | JCM | 445 | with SS hardware; for concrete pipe only |
| 3. | Smith-Blair | 683, 687 | All stainless steel 683 for \leq 12in |
| 4. | TPS | Triple Tap | Extended range-stainless steel |
| Line Stop and Tapping Service Providers for Pre-stressed Concrete Cylinder Pipe | | | |
| 1. | Rangeline Tapping Services, Inc. | | |
| 2. | TDW- T.D. Williamson Inc. | | |
| Manhole Access Castings | | | |
| 1. | U.S. Foundry | 170-E-ORS | 24" opening |
| 2. | U.S. Foundry | 225-AS-ORS | 24" opening in FDOT ROW |
| 3. | U.S. Foundry | 230-AA-ORS | 30" opening |
| 4. | CAP | Composite Ring/Cover | Composite Access Products- 24" and 30" openings |
| Meter- Automatic Meter Reading System (potable water and reclaimed water meters) | | | |
| 1. | Orion | | Cellular |
| Meter- Residential/Commercial/Fire Series/Master Meter Assembly | | | |
| 1. | Badger | | Reclaimed Water meters must have color designation |
| 2. | Hersey/Mueller | MVR, FM, MAG | Must have NICOR connection. |
| 3. | Master Meter | Octave | Must have NICOR connection. |
| Meter- Meter Box (10x15) (potable water and reclaimed water) | | | |
| 1. | CDR | B00-1015-12 | without lid |
| 2. | Glass Master | S101512F2N08-1/ S101512SN08-1 | without lid |
| Meter- Meter Box Lids (10x15) (potable water and reclaimed water) | | | |
| 1. | Carson | 1419 | with metal reader; reclaimed water lids must be purple |
| 2. | DFW Plastics | DFW36M, 1PT Small | for beacon cellular meters |
| Meter- Meter Box & Lids (15x27) For use with automatic flushing device meter and 1 1/2" and 2" reclaimed water meters | | | |
| 1. | CDR | WA03-1527-12 | |
| MJ Adapter for HDPE | | | |
| 1. | Central | | |
| 2. | Integrity | | |
| 3. | Orion | | |
| 4. | Performance | | |
| Pipe- Ductile Iron Pipe (potable and reclaimed water- cement lined ; wastewater- epoxy lined) | | | |
| 1. | American | | |
| 2. | McWane | | |
| 3. | U.S. Pipe | | |
| 4. | Custom Fab | | |
| Pipe- High Density Polyethylene Pipe (potable water-blue striped; reclaimed water-purple striped) | | | |
| 1. | Performance Pipe | Drisco Plex | 4710 |



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| 2. | J-M Manufacturing | J-MM HDPE | 4710 |
| 3. | National Pipe | | 4710 |
| 4. | Dura-line | | 4710 |
| 5. | GF/Central/ Independent | | 4710 |
| Pipe- Pre-Stressed Concrete Cylinder Pipe and Pipe Adapters | | | |
| 1. | Thompson Pipe Group | | |
| Pipe- Polyethylene Tubing for Services (AWWA C-901, ASTM D2737, PE 4710, SDR-9, CTS, UV protection, potable water-blue, reclaimed water-purple) | | | |
| 1. | Endot | Endopure, EndoTrace, Endocore | |
| 2. | Charter Plastics | Blue Ice- CTS Lavender Ice-CTS | Natural Core, blue shell Natural Core, lavender shell |
| Pipe- 2" PVC Pipe (SDR-21, potable water-blue) | | | |
| 1. | Accord | | |
| 2. | Charlotte | | |
| 3. | J-M Manufacturing | | |
| 4. | National Pipe | Dura-Flow | |
| Pipe- PVC Pipe (AWWA C-900, SDR-18, SDR-25, potable water-blue, reclaimed water-purple) | | | |
| 1. | Certainteed 4"- 12" | Certa-Lok | Used only in specific applications-contact Utilities Operations Division for details |
| 2. | Diamond Plastic | | |
| 3. | J-M Manufacturing | Blue Brute | |
| 4. | National Pipe | Dura-Blue | |
| 5. | North American Pipe Co. | | |
| Paint (primer and finish coat for 4" and larger potable water meters and backflow assemblies, DDCs, hydrants and aerial crossings) Bare metal assemblies require primer coat. | | | |
| 1. | Richard's Paint | 1120 (primer) 2400 Gloss (finish) | Safety Blue, Safety Red, RP-369 (yellow) |
| 2. | Tnemec | Endura Shield Series 73 (primer and finish) | Safety Red, Safety Blue, Safety Yellow |
| Paint (primer and finish coat for 3" and smaller commercial potable water meter and backflow assemblies) Bare metal assemblies require primer coat. | | | |
| 1. | Rustoleum | C740 DTM Alkyd Enamel (primer) C740 DTM Alkyd Enamel Gloss (finish) | Safety Blue |
| 2. | Rustoleum | V2100 Enamel (primer and finish) | Safety Blue- Aerosol |
| 3. | Richard's Paint | 1120 (primer) 2400 Gloss (finish) | Safety Blue |
| 4. | Tnemec | Endura Shield Series 73 (primer and finish) | Safety Blue |



| Paint (primer and finish coat for 3" and larger reclaimed water meters) Bare metal assemblies require primer coat. | | | |
|---|------------------|---|--|
| 1. | Tnemec | Endura Shield Series 73 (primer and finish) | Reclaimed Water Purple 16SF |
| 2. | Sherwin Williams | Macropoxy 646 (primer) Acrolon 218 HS (finish) or Acrolon 100 (finish) | For reclaimed water applications only- see City for color code |
| 3. | Richard's Paint | XIM (primer) 1001/G (paint) | "Reclaimed Purple" color designation |
| Paint (potable water valve box lids and curb etchings; meter paint permissible in this application) | | | |
| 1. | Richard's Paint | Rust Shield 1003-A | Paint code C-3 E-8417 KX-436 |
| Paint (reclaimed water valve box lids and curb etchings- meter paint permissible in this application) | | | |
| 1. | Rustoleum | V2100 High Performance Enamel | Safety Purple V2167838 |
| 2. | Aerovoe | 212 | |
| Point Repair Coupling | | | |
| 1. | Fernco | Series 5000 | For repair to Clay, CIPP |
| 2. | Gripper Gaskets | MaxAdaptor | For all pipe material |
| 3. | Multi Fittings | Injection Molded Repair Coupling (GxG) No pipe Stop | For repair to PVC |
| Restraints- Bell Harness Restraint (new and existing) | | | |
| 1. | EBBA | 1100, 1500 & 1600 Series | |
| 2. | Ford | Uni-Flange 1350 & 1390 | |
| 3. | Sigma | PV Lok | |
| Restraints- Mechanical Restraint Joints (ductile iron pipe) | | | |
| 1. | American | Fast Grip Gasket | Pipe joints painted with high quality red enamel |
| 2. | EBBA Iron Sales | Megalug Series 1100 | |
| 3. | Sigma | One-Lok | |
| 4. | U.S. Pipe | Field-Lok | Pipe joints painted with high quality red enamel |
| 5. | Ford | Uni-Flange | |
| Restraints- Mechanical Restraint Joints (PVC pipe) | | | |
| 1. | EBAA Iron Sales | Megalug® Series 2000PV | |
| 2. | Sigma | One-Lok-SLC | |
| 3. | Ford | Uni-Flange | |
| Saddle Wyes for Lateral Connections to CIPP | | | |
| 1. | Multi Fittings | Trench Tough Plus Gasketed SDR35 Injection Molded Saddle Wye GHxGS w/SS bands | OR City approved equal |
| Service Saddles | | | |
| 1" taps on 2" mains | | | |
| 1. | Mueller | H-13420 | |



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| 2. | A.Y. McDonald | 3801 | |
| 3. | Ford | SB-70-204 | |
| 4. | Ford | FC-202 | for 2" HDPE IPS pipe |
| 1" taps on 4" and 6" mains | | | |
| 1. | Ford | 101B | Single strap |
| 2. | A.Y. McDonald | 3815 | Single strap |
| 3. | Mueller | B-R1B | Single strap |
| 1" taps on 8" or larger mains and 2" taps on >= 4" mains | | | |
| 1. | Ford | 202B | Double strap |
| 2. | A.Y. McDonald | 3825 | Double strap |
| 3. | Mueller | B-R2B | Double strap |
| Wide range | | | |
| 1. | TPS | Triple Tap T3 | Wide Range (316 stainless steel for wastewater) |
| Tapping Sleeves (Stainless Steel) | | | |
| 1. | JCM | 432,452, 415 (304 SST) | 432 cannot be used on HDPE or thin wall pipe; 452 cannot be used on Cast Iron and Cement Asbestos pipe; 415 epoxy coated carbon steel with SS hardware for PCCP |
| 2. | Ford | FTSS, FTSAS (304 SST) | FTSS cannot be used on HDPE or thin wall pipe; FTSAS cannot be used on Cast Iron and Cement |
| 3. | TPS | Triple Tap MJ Sleeve | Extended Range MJ (stainless steel) |
| Tapping Valve | | | |
| 1. | American Flow Control | 2500 | |
| 2. | AVK | 45 | |
| 3. | Clow | 2638/2639/2640 | |
| 4. | Kennedy/M&H | KS-RW/KS-FW | |
| 5. | Mueller | T-2360/A-2361 | |
| Tracing Wire (for directional drill- potable water-blue, reclaimed water-purple, wastewater-green) | | | |
| 1. | Copperhead | SoloShot Extra High Strength | 12-gauge |
| Valve- Air Release Valves | | | |
| 1. | ARI | D-040, S-050, S-010, | Potable water only |
| 2. | ARI | D-021 | Reclaimed water only |
| 3. | ARI | D-025 SST | Wastewater only- 316 stainless steel |
| 4. | ARI | D-26 SST | Wastewater only- 316 stainless steel- nominal valve |
| 5. | H-TEC | 988-00 | Wastewater only-316 stainless steel- nominal valve |
| 6. | H-TEC | 989-00 | Wastewater only-316 stainless steel- short body |
| 7. | Val-Matic | VM-38, VM-45 | Potable water only |
| 8. | Val-Matic | VM-200C | Reclaimed water only |
| 9. | Vent-O-Mat | RGXII | Wastewater only- 316 stainless steel |
| Valve- Butterfly Valves (30" and larger) | | | |
| 1. | Clow | 1450 | |
| 2. | Dezurik | BAW | |
| 3. | M&H | 1450 | |
| 4. | Milliken | 500 series | |
| 5. | Mueller/Pratt | Linseal III/Groundhog | |
| Valve- AWWA Gate Valves- 2" (FIPT x FIPT) | | | |
| 1. | AFC | | |
| 2. | Clow | 2639 | |
| 3. | Mueller | 2360 | |



| Valve- Gate Valves 4" – 12" (MJ x MJ) | | | |
|--|-----------------------|-----------------------|---|
| 1. | American Flow Control | 2500 Series | |
| 2. | American R/D | 2638/2639/2640 | |
| 3. | AVK | 45 | |
| 4. | Clow | 2638/2639/2640 | |
| 5. | Kennedy/M&H | KS-RW/ KS-FW | |
| 6. | Mueller | 2360/2361 Series | |
| Valve- Insert Valves | | | |
| 1. | Team Valve | 4"-12" InsertValve | |
| 2. | Advance Valve Tech. | EZ ₂ Valve | |
| Valve- Pressure Sustaining Valves | | | |
| 1. | Bermad | | |
| 2. | Flowmatic | | |
| Valve Box | | | |
| 1. | Tyler Pipe | Series 6850 | |
| 2. | Sigma | VB 261X; 261 | 261X for DOT roadways, 261 series for all other roadways |
| 3. | Star | VB0001; VB0002 | VB0002 for DOT roadways, Series VB0001 for all other roadways |

| Lift Stations | | | |
|--|------------------------|----------------------|------------------------------|
| Item | Manufacturer | Model No. | Comments |
| Circuit Breakers-Lift Station Control Panel | | | |
| 1. | Square D | Full-Size FAL or KAL | |
| Field Coatings-Wet Well and Terminal Manhole | | | |
| 1. | SprayRoq | | Polyurethane coating |
| Generator Sets and Transfer Gear | | | |
| 1. | Tradewinds Power Corp. | Total PAC | |
| Generator Receptacles-Lift Station Control Panel | | | |
| 1. | Russelstoll | JRSB1044FR | For 100-amp system |
| 2. | Russelstoll | JRSB2044FR | For 200-amp system |
| Heat-Shrink Wraparound Sleeve-Wet Well | | | |
| 1. | CCI | WrapidSeal | |
| Motor Starters-Lift Station Control Panel | | | |
| 1. | Square D | | |
| 2. | Furnas | | |
| Polymer Concrete Pre-Cast Structures and Liners-Wet Well and Terminal Manhole | | | |
| 1. | Armorock | | |
| Power Transformer-Lift Station Control Panel | | | |
| 1. | Square D | Class 7410 or 7411 | (sized for load, min. 3 kVA) |
| Pressure Transducer-Wet Well Bubbler Level Sensor | | | |
| 1. | Vega | Vegabar | |
| Remote Terminal Unit | | | |
| 1. | Data Flow Systems | Tac II RTU | Remote terminal unit |
| 2. | Data Flow Systems | BEM001 | Bus extender module |



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| 3. | Data Flow Systems | RIM007 | Radio interface module |
| 4. | Data Flow Systems | PSM003 (100-watt) | Power supply module |
| Soft Starters-Lift Station Control Panel | | | |
| 1. | Square D | Telemecanique Altistart | only for motors 10 HP or larger |
| Submersible Pumps | | | |
| 1. | Grundfos | | |
| 2. | Wilo | | |
| 3. | KSB | | |
| 4. | Myers (Pentair) | | |
| 5. | Hydromatic (Pentair) | | |
| 6. | Ebara | | |
| Telemetry Control Unit-Lift Station Control Panel | | | |
| 1. | Data Flow Systems | TCU001 | |
| Valve-Swing Check Valve (AWWA C508 Spec) | | | |
| 1. | Clow Valve Co. | Style 1106 | |
| 2. | Kennedy | Style 1106 | |
| 3. | Mueller | Series A-2600 | |